

Table Linear Parameters 18TLW3000

Name	Value	Unit	Comment
Electrical Parameters			
Re	4.60	Ohm	electrical voice coil resistance at DC
Le	1.348	mH	frequency independent part of voice coil inductance
L2	2.459	mH	para-inductance of voice coil
R2	11.10	Ohm	electrical resistance due to eddy current losses
Cmes	450.71	μF	electrical capacitance representing moving mass
Lces	47.48	mH	electrical inductance representing driver compliance
Res	200.01	Ohm	resistance due to mechanical losses
fs	34.4	Hz	driver resonance frequency
Mechanical Parameters			
(using laser)			
Mms	266.000	g	mechanical mass of driver diaphragm assembly including air load and voice-coil
Mmd (Sd)	217.526	g	mechanical mass of voice coil and diaphragm without air load
Rms	2.951	kg/s	mechanical resistance of total-driver losses
Cms	0.080	mm/N	mechanical compliance of driver suspension
Kms	12.43	N/mm	mechanical stiffness of driver suspension
Bl	24.500	N/A	force factor (Bl product)
Lambda s	0.000		suspension creep factor
Loss factors			
Qtp	0.440		total Q-factor considering all losses
Qms	19.486		mechanical Q-factor of driver in free air considering Rms only
Qes	0.448		electrical Q-factor of driver in free air considering Re only
Qts	0.438		total Q-factor considering Re and Rms only
Other Parameters			
Vas	170.9872	l	equivalent air volume of suspension
n0	1.519	%	reference efficiency (2 pi-radiation using Re)
Lm	94.02	dB	characteristic sound pressure level (at 1 m for 1 W @ Re)
Lnom	96.42	dB	nominal sensitivity (SPL at 1 m for 1 W @ Zn)
rmse Z	1.73	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	3.90	%	root-mean-square fitting error of transfer function Hx(f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	1225.42	cm ²	diaphragm area

Table Linear Parameters 18LW2600

Name	Value	Unit	Comment
Electrical Parameters			
Re	4.91	Ohm	electrical voice coil resistance at DC
Le	3.385	mH	frequency independent part of voice coil inductance
L2	3.838	mH	para-inductance of voice coil
R2	7.95	Ohm	electrical resistance due to eddy current losses
Cmes	320.92	μ F	electrical capacitance representing moving mass
Lces	83.89	mH	electrical inductance representing driver compliance
Res	180.25	Ohm	resistance due to mechanical losses
fs	30.7	Hz	driver resonance frequency
Mechanical Parameters			
(using laser)			
Mms	304.053	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	255.580	g	mechanical mass of voice coil and diaphragm without air load
Rms	5.256	kg/s	mechanical resistance of total-driver losses
Cms	0.089	mm/N	mechanical compliance of driver suspension
Kms	11.29	N/mm	mechanical stiffness of driver suspension
Bl	30.780	N/A	force factor (Bl product)
Lambda s	0.008		suspension creep factor
Loss factors			
Qtp	0.299		total Q-factor considering all losses
Qms	11.149		mechanical Q-factor of driver in free air considering Rms only
Qes	0.304		electrical Q-factor of driver in free air considering Re only
Qts	0.295		total Q-factor considering Re and Rms only
Other Parameters			
Vas	188.1686	l	equivalent air volume of suspension
n0	1.720	%	reference efficiency (2 pi-radiation using Re)
Lm	94.56	dB	characteristic sound pressure level (at 1 m for 1 W @ Re)
Lnom	96.68	dB	nominal sensitivity (SPL at 1 m for 1 W @ Zn)
rmse Z	4.21	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.53	%	root-mean-square fitting error of transfer function Hx(f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	1225.42	cm ²	diaphragm area

Table Linear Parameters 18NLW4100

Name	Value	Unit	Comment
Electrical Parameters			
Re	4.88	Ohm	electrical voice coil resistance at DC
Le	2.287	mH	frequency independent part of voice coil inductance
L2	2.695	mH	para-inductance of voice coil
R2	12.40	Ohm	electrical resistance due to eddy current losses
Cmes	365.19	μ F	electrical capacitance representing moving mass
Lces	71.02	mH	electrical inductance representing driver compliance
Res	155.95	Ohm	resistance due to mechanical losses
fs	31.3	Hz	driver resonance frequency
Mechanical Parameters			
(using laser)			
Mms	306.529	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	258.056	g	mechanical mass of voice coil and diaphragm without air load
Rms	5.382	kg/s	mechanical resistance of total-driver losses
Cms	0.085	mm/N	mechanical compliance of driver suspension
Kms	11.82	N/mm	mechanical stiffness of driver suspension
Bl	28.972	N/A	force factor (Bl product)
Lambda s	0.000		suspension creep factor
Loss factors			
Qtp	0.341		total Q-factor considering all losses
Qms	11.183		mechanical Q-factor of driver in free air considering Rms only
Qes	0.350		electrical Q-factor of driver in free air considering Re only
Qts	0.339		total Q-factor considering Re and Rms only
Other Parameters			
Vas	179.8110	l	equivalent air volume of suspension
n0	1.507	%	reference efficiency (2 pi-radiation using Re)
Lm	93.98	dB	characteristic sound pressure level (at 1 m for 1 W @ Re)
Lnom	96.13	dB	nominal sensitivity (SPL at 1 m for 1 W @ Zn)
rmse Z	1.81	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.37	%	root-mean-square fitting error of transfer function Hx(f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	1225.42	cm ²	diaphragm area

Table Linear Parameters 18NTLW5000

Name	Value	Unit	Comment
Electrical Parameters			
Re	5.50	Ohm	electrical voice coil resistance at DC
Le	1.229	mH	frequency independent part of voice coil inductance
L2	2.294	mH	para-inductance of voice coil
R2	9.39	Ohm	electrical resistance due to eddy current losses
Cmes	285.89	μ F	electrical capacitance representing moving mass
Lces	63.96	mH	electrical inductance representing driver compliance
Res	273.89	Ohm	resistance due to mechanical losses
fs	37.2	Hz	driver resonance frequency
Mechanical Parameters			
(using laser)			
Mms	292.525	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	244.052	g	mechanical mass of voice coil and diaphragm without air load
Rms	3.736	kg/s	mechanical resistance of total-driver losses
Cms	0.063	mm/N	mechanical compliance of driver suspension
Kms	16.00	N/mm	mechanical stiffness of driver suspension
Bl	31.988	N/A	force factor (Bl product)
Lambda s	0.000		suspension creep factor
Loss factors			
Qtp	0.362		total Q-factor considering all losses
Qms	18.311		mechanical Q-factor of driver in free air considering Rms only
Qes	0.368		electrical Q-factor of driver in free air considering Re only
Qts	0.360		total Q-factor considering Re and Rms only
Other Parameters			
Vas	132.8457	l	equivalent air volume of suspension
n0	1.791	%	reference efficiency (2 pi-radiation using Re)
Lm	94.73	dB	characteristic sound pressure level (at 1 m for 1 W @ Re)
Lnom	96.36	dB	nominal sensitivity (SPL at 1 m for 1 W @ Zn)
rmse Z	1.59	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.82	%	root-mean-square fitting error of transfer function Hx(f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	1225.42	cm ²	diaphragm area

Table Linear Parameters 18NLW4500

Name	Value	Unit	Comment
Electrical Parameters			
Re	5.00	Ohm	electrical voice coil resistance at DC
Le	1.979	mH	frequency independent part of voice coil inductance
L2	2.473	mH	para-inductance of voice coil
R2	5.01	Ohm	electrical resistance due to eddy current losses
Cmes	311.59	μ F	electrical capacitance representing moving mass
Lces	66.09	mH	electrical inductance representing driver compliance
Res	141.79	Ohm	resistance due to mechanical losses
fs	35.1	Hz	driver resonance frequency
Mechanical Parameters			
(using laser)			
Mms	286.105	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	237.632	g	mechanical mass of voice coil and diaphragm without air load
Rms	6.476	kg/s	mechanical resistance of total-driver losses
Cms	0.072	mm/N	mechanical compliance of driver suspension
Kms	13.89	N/mm	mechanical stiffness of driver suspension
Bl	30.302	N/A	force factor (Bl product)
Lambda s	0.004		suspension creep factor
Loss factors			
Qtp	0.335		total Q-factor considering all losses
Qms	9.736		mechanical Q-factor of driver in free air considering Rms only
Qes	0.343		electrical Q-factor of driver in free air considering Re only
Qts	0.332		total Q-factor considering Re and Rms only
Other Parameters			
Vas	152.9733	l	equivalent air volume of suspension
n0	1.847	%	reference efficiency (2 pi-radiation using Re)
Lm	94.87	dB	characteristic sound pressure level (at 1 m for 1 W @ Re)
Lnom	96.91	dB	nominal sensitivity (SPL at 1 m for 1 W @ Zn)
rmse Z	1.60	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.29	%	root-mean-square fitting error of transfer function Hx(f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	1225.42	cm ²	diaphragm area

Table Linear Parameters 18NLW9601

Name	Value	Unit	Comment
Electrical Parameters			
Re	4.65	Ohm	electrical voice coil resistance at DC
Le	1.798	mH	frequency independent part of voice coil inductance
L2	2.451	mH	para-inductance of voice coil
R2	5.92	Ohm	electrical resistance due to eddy current losses
Cmes	284.76	μ F	electrical capacitance representing moving mass
Lces	49.35	mH	electrical inductance representing driver compliance
Res	132.93	Ohm	resistance due to mechanical losses
fs	42.5	Hz	driver resonance frequency
Mechanical Parameters			
(using laser)			
Mms	260.000	g	IMPORTED mechanical mass of driver diaphragm assembly including air load and voice-coil
Mmd (Sd)	211.526	g	mechanical mass of voice coil and diaphragm without air load
Rms	6.869	kg/s	mechanical resistance of total-driver losses
Cms	0.054	mm/N	mechanical compliance of driver suspension
Kms	18.50	N/mm	mechanical stiffness of driver suspension
Bl	30.217	N/A	force factor (Bl product)
Lambda s	0.019		suspension creep factor
Loss factors			
Qtp	0.346		total Q-factor considering all losses
Qms	10.097		mechanical Q-factor of driver in free air considering Rms only
Qes	0.353		electrical Q-factor of driver in free air considering Re only
Qts	0.341		total Q-factor considering Re and Rms only
Other Parameters			
Vas	114.8675	l	equivalent air volume of suspension
n0	2.395	%	reference efficiency (2 pi-radiation using Re)
Lm	95.99	dB	characteristic sound pressure level (at 1 m for 1 W @ Re)
Lnom	98.35	dB	nominal sensitivity (SPL at 1 m for 1 W @ Zn)
rmse Z	1.53	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	4.35	%	root-mean-square fitting error of transfer function Hx(f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	1225.42	cm ²	diaphragm area

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